What is claimed is:

- 1. A system for operating an aircraft, comprising: a navigation computer comprising:
- a first input configured to receive guidance instructions,
 a second input configured to receive guidance parameters, and
 an output configured to output automatic pilot instructions; and
 a flight control computer comprising:
- a first input configured to receive control instructions,
 a second input configured to receive said automatic pilot instructions, and
 a command generator configured to generate a first plurality of operating commands
 based on said automatic pilot instructions in an automatic pilot mode.
- 2. The system of Claim 1, wherein said command generator is configured to generate a second plurality of operating commands based on said control instructions in a manual pilot mode.
- 3. The system of Claim 1, wherein said flight control computer further comprises a third input configured to receive control parameters.
- 4. The system of Claim 1, wherein said command generator is configured to generate said first and second pluralities of operating commands based on a single control function.
- 5. The system of Claim 4, wherein said single control function is embedded in said flight control computer.
- 6. The system of Claim 1, wherein said navigation computer generates said automatic pilot instructions based on said guidance instructions and on said guidance parameters.
- 7. The system of Claim 6, wherein said automatic pilot instructions correspond in nature to said control instructions.

- 8. The system of Claim 7, wherein said automatic pilot instructions and said control instructions correspond to a commanded vertical load factor.
- 9. The system of Claim 7, wherein said automatic pilot instructions and said control instructions correspond to a commanded roll rate.
- 10. The system of Claim 7, wherein said automatic pilot instructions and said control instructions correspond to a commanded yaw.
- 11. The system of Claim 1, wherein said flight control computer is directly connected to said navigation computer and receives said automatic pilot instructions directly from said navigation computer.
- 12. A system for operating an aircraft, comprising: a navigation computer comprising:

means for receiving guidance instructions,

means for receiving guidance parameters, and

means for outputting automatic pilot instructions; and
a flight control computer comprising:

means for receiving control instructions,

means for receiving said automatic pilot instructions, and

means for generating a first plurality of operating commands based on said automatic pilot instructions in an automatic pilot mode.

- 13. The system of Claim 12, wherein said flight control computer further comprises means for generating a second plurality of operating commands based on said control instructions in a manual pilot mode.
- 14. The system of Claim 12, wherein said flight control computer further comprises means for receiving control parameters.

- 15. The system of Claim 12, wherein said first and second pluralities of operating commands are based on a single control function.
- 16. The system of Claim 15, wherein said single control function is embedded in said flight control computer.
- 17. The system of Claim 12, wherein said navigation computer further comprises means for generating said automatic pilot instructions based on said guidance instructions and on said guidance parameters.
- 18. The system of Claim 17, wherein said automatic pilot instructions correspond in nature to said control instructions.
- 19. The system of Claim 17, wherein said automatic pilot instructions correspond to a commanded vertical load factor, commanded roll rate, and a commanded yaw.
- 20. The system of Claim 19, wherein said control instructions correspond to a commanded vertical load factor, commanded roll rate, and a commanded yaw.